

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S73	20125	(potential near2 well)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:45
S74	453	(potential near2 well) with capacitor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:45
S75	116	(potential near2 well) with capacitor and ccd	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:48
S76	24	(potential near2 well) with capacitor and ccd and (three with phase)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:55
S77	113122	(shift adj register)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:57
S78	11917	(shift adj register) and (three with (phase or clock))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:58
S79	15621	(shift adj register) and (three with (phase or clock or pulse))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:58
S80	1140	((shift adj register) with image) and (three with (phase or clock or pulse))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:59
S81	0	((shift adj register) with image) and (three with (phase or clock or pulse)) and "354".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:59

## EAST Search History

S82	109	((shift adj register) with image) and (three with (phase or clock or pulse)) and "382".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:59
S83	148	((shift adj register) with image) and (three with (phase or clock or pulse)) and (potential near2 well)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:00
S84	126	((shift adj register) with image) and (three with (phase or clock or pulse)) and (potential near2 well) and ccd	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:01
S85	648	((shift adj register) with ccd) and (three with (phase or clock or pulse))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:01
S86	232	((shift adj register) with ccd) and (three with (phase or clock or pulse)) and (potential near2 well)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:04
S87	168	((shift adj register) with ccd) and (three with (phase or clock or pulse)) and (potential near2 well) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:21
S88	1	(photodiode with stagger\$4) and (three with (phase or clock or pulse)) and (potential near2 well) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:22
S89	1	((photodiode or photodetector) with stagger\$4) and (three with (phase or clock or pulse)) and (potential near2 well) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:23
S90	1	((photodiode or photodetector or photo\$diode) with stagger\$4) and (three with (phase or clock or pulse)) and (potential near2 well) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:23
S91	1	((photodiode or photodetector or photo\$diode or photo\$detector) with stagger\$4) and (three with (phase or clock or pulse)) and (potential near2 well) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:23

## EAST Search History

S92	19	((photodiode or photodetector or photo\$diode or photo\$detector or sensor or array) with stagger\$4) and (three with (phase or clock or pulse)) and ((potential near2 well) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:36
S93	2	(( sensor or array) with stagger\$4) and (three with (phase or clock or pulse)) and ((potential near2 well) with accumulats\$4) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:46
S94	2	(( sensor or array) with stagger\$4) and (three with (phase or clock or pulse)) and ((potential near2 well) with (accumulats\$4 or add or adding)) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:47
S95	2	(( sensor or array) with stagger\$4) and (three with (phase or clock or pulse)) and ((potential near2 well) with (accumulats\$4 or add or adding or sum)) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:47
S96	7	(( sensor or array) with stagger\$4) and (three with (phase or clock or pulse)) and ((potential near2 well) with transfer\$4) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:55
S97	1	("5283428").PN.	USPAT; EPO	OR	OFF	2006/04/12 11:55
S98	7	(( sensor or array or photoelectric) with stagger\$4) and (three with (phase or clock or pulse)) and ((potential near2 well) with transfer\$4) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:56
S99	7	(( sensor or array or photoelectric or photo\$electric) with stagger\$4) and (three with (phase or clock or pulse)) and ((potential near2 well) with transfer\$4) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 12:00
S10 0	0	(( sensor or array or photoelectric or photo\$electric) with stagger\$4) and (three with (phase or clock or pulse)) and ((potential near2 well) with accumulate) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 12:01
S10 1	19	(( sensor or array or photoelectric or photo\$electric) with stagger\$4) and (three with (phase or clock or pulse)) and ((potential near2 well) ) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 12:07

## EAST Search History

S10 2	6	(( sensor or array or photoelectric or photo\$electric) with stagger\$4) and (two with (phase or clock or pulse) with least) and ((potential near2 well) ) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 12:08
S10 3	21	(( sensor or array or photoelectric or photo\$electric) with (stagger\$4 or pattern)) and (two with (phase or clock or pulse) with least) and ((potential near2 well) ) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 12:12
S10 4	6	(( sensor or array or photoelectric or photo\$electric) with (stagger\$4 )) and (two with (phase or clock or pulse) with least) and ((potential near2 well) ) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 12:12
S10 5	19	(( sensor or array or photoelectric or photo\$electric) with (stagger\$4 )) and (three with (phase or clock or pulse) ) and ((potential near2 well) ) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 12:59
S10 6	19	(( sensor or array or photoelectric or photo\$electric) with (stagger\$4 )) and (three with (phase or clock or pulse) ) and ((potential near2 (well or barrier)) ) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 12:20
S10 7	54	(( sensor or array or photoelectric or photo\$electric) with (stagger\$4 )) and ( (phase or clock or pulse) ) and ((potential near2 (well or barrier)) ) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 13:03
S10 8	32	(( sensor or array or photoelectric or photo\$electric) with (stagger\$4 )) and ( (phase or clock or pulse) ) and ((potential near2 (well or barrier)) with charge ) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 12:28
S10 9	27	(( sensor or array or photoelectric or photo\$electric) with (stagger\$4 )) and ( (phase or clock or pulse) ) and ((potential with charge with (collect\$4 or accumulat\$4) ) )and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 12:45
S11 0	11	(( sensor or array or photoelectric or photo\$electric) with (stagger\$4 )) and ( (phase or clock or pulse) ) and (((potential near2 well) with charge with (collect\$4 or accumulat\$4) ) )and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 12:47

## EAST Search History

S11 1	11	(( sensor or array or photoelectric or photoelectric) with (stagger\$4 )) and ( (phase or clock or pulse) ) and (((potential near2 well) with charge with (collect\$4 or accumulats\$4) ) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 13:02
S11 2	67	(( sensor or array or photoelectric or photoelectric) with (stagger\$4 )) and ( (phase or clock or pulse) ) and ((potential near2 (well or barrier)) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 13:12
S11 3	3146	(( sensor or array or photoelectric or photoelectric) with (stagger\$4 or zigzag )) and ( (phase or clock or pulse) ) and (well )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 13:12
S11 4	74	(( sensor or array or photoelectric or photoelectric) with (stagger\$4 or zigzag )) and ( (phase or clock or pulse) ) and ((potential near2 well) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 13:34
S11 5	54	(( sensor or array or photoelectric or photoelectric) with (stagger\$4 or zigzag )) and ( (phase or clock or pulse) ) and ((charge with (add or added or adding)) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 13:35
S11 6	0	(stagger or zigzag) and (charge with well with cascads\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 13:54
S11 8	214	(stagger or zigzag) and (charge with well ) and image	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 13:55
S11 9	113	(stagger or zigzag) and (charge with well ) and ccd	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 13:56
S12 0	29	(stagger or zigzag) and (charge with (potential near2 well) ) and ccd	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 14:01

## EAST Search History

S12 1	271	(stagger or zigzag) and (charge with (add or added or adding or accumulat\$4 or mix\$4 or combin\$4) ) and ccd	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 14:20
S12 2	200	(stagger or zigzag) and (charge with (add or added or adding or accumulat\$4 or mix\$4 or combin\$4) ) and ccd and (phase or clock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 14:59
S12 3	841	(charge with (add or added or adding or accumulat\$4 or mix\$4 or combin\$4) ) and ccd and (three with phase)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 15:01
S12 4	207	(charge with (add or added or adding or accumulat\$4 or mix\$4 or combin\$4) with potential ) and ccd and (three with phase)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 15:31
S12 5	186	(charge with (add or added or adding or accumulat\$4 or mix\$4 or combin\$4) with potential ) and ccd and (three with phase) and imag\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 15:51
S12 6	55	(charge with (add or added or adding or mix\$4 or combin\$4) with potential ) and ccd and (three with phase) and imag\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 08:38
S12 7	82	((charge or electron or image or signal) with (add or added or adding or mix\$4 or combin\$4) with potential ) and ccd and (three with phase) and imag\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 10:25
S12 8	62	((charge or electron or image or signal) with (add or added or adding or mix\$4 or combin\$4) with potential ) and (three with phase) and (photoelement or photo\$element or photosensor or photo\$sensor or photodiode or photo\$diod or photoelectric or photo\$electric)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 10:28

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S12 9	253	((charge or electron or image or signal) with (add or added or adding or mix\$4 or combin\$4) with potential ) and (three with phase) and (photoelement or photo\$element or photosensor or photo\$sensor or photodiode or photo\$diodi or photoelectric or photo\$electric or array or sensor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 10:31
S13 0	134	((charge or electron or image or signal) with (add or added or adding or mix\$4 or combin\$4) with potential ) and (three with phase) and (photoelement or photo\$element or photosensor or photo\$sensor or photodiode or photo\$diodi or photoelectric or photo\$electric or array or sensor) and imag\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 10:37
S13 1	45	((charge or electron or image or signal) with (add or added or adding or mix\$4 or combin\$4) with potential ) and (three with phase) and stagger\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 11:26
S13 2	12	((charge or electron or image or signal) with (add or added or adding or mix\$4 or combin\$4) with potential ) and (three with phase) and stagger\$ and print\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 11:26
S13 3	0	((charge or electron or image or signal) with (add or added or adding or mix\$4 or combin\$4) with potential ) and (three with phase) and stagger\$ and scanner	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 11:27
S13 4	162	((charge or electron or image or signal) with (add or added or adding or mix\$4 or combin\$4) ) and (three with phase) and stagger\$ and scanner	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 11:32
S13 5	162	((charge or electron or image or signal) with (add or added or adding or mix\$4 or combin\$4) ) and (three with phase) and stagger\$4 and scanner	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 11:35

## EAST Search History

S13 6	65	((charge or electron or image or signal) with (add or added or adding or mix\$4 or combin\$4) ) and (three with phase) and stagger\$4 and scanner and (shift near2 register)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 11:38
S13 7	27	((charge or electron or image or signal) with (add or added or adding or mix\$4 or combin\$4) ) and (three with phase) and stagger\$4 and scanner and (ccd)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 11:38
S13 8	1	("6166831").PN.	USPAT; EPO	OR	OFF	2006/04/13 11:46
S13 9	889	(three near2 phase) with register	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 11:47
S14 0	49	(three near2 phase) with register and scanner	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 11:47
S14 1	9619	scanner with ccd	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 14:35
S14 2	1386	scanner with ccd with reflect\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 14:40
S14 3	342	scanner with ccd with reflect\$4 and potential	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 14:40
S14 4	4	scanner with ccd with reflect\$4 and (potential adj well)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 14:43



## EAST Search History

S14 5	68	scanner with light and (potential adj well)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 14:57
S14 6	16	scanner with light and (potential adj well) and gain	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 14:45
S14 7	81	scanner and (register with phase with three)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 14:59
S14 8	35	scanner and ((shift adj register) with phase with three)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 15:03
S14 9	636	scanner with light and (gain adj control)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 15:04
S15 0	126	scanner with light and (gain adj control) and (shad\$4 with correct\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 15:06
S15 1	5	scanner with light and (gain adj control) and (shad\$4 with correct\$4) and (potential adj well)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/13 15:52
S15 2	1	("5283428").PN.	USPAT; EPO	OR	OFF	2006/04/14 09:17

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	("ccdandregisterandimag\$4andpotential").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/14 09:18
L2	6783	ccd and register and imag\$4 and potential	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/14 09:18
L3	1006	ccd and (register with phase) and imag\$4 and potential	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/14 09:19
L5	222	ccd and (register with phase) and imag\$4 and (potential with well) and (three with phase)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/14 09:42
L6	741	382/312.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/14 09:42
L7	33	382/312.ccls. and (potential ) and register	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/14 09:42
S1	129793	(ccd or (charge near coupled near device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:45


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IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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- ☐ 1. **Generation mechanism and elimination of fixed pattern noise in dual-channel CCD register image sensor**  
Orihara, K.; Oda, E.;  
[Electron Devices, IEEE Transactions on](#)  
Volume 35, Issue 11, Part 2, Nov. 1988 Page(s):1846 - 1850  
Digital Object Identifier 10.1109/16.7396  
[AbstractPlus](#) | Full Text: [PDF](#)(552 KB) IEEE JNL  
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- ☐ 2. **A 2/3-in 1187(H)×581(V) S-VHS-compatible frame-transfer CCD for ESP and**  
Bosiers, J.T.; Kleimann, A.C.; Dillen, B.G.; Peek, H.L.; Kokshoorn, A.L.; Daems  
Sijde, A.G.; van Gaal, L.T.;  
[Electron Devices, IEEE Transactions on](#)  
Volume 38, Issue 5, May 1991 Page(s):1059 - 1068  
Digital Object Identifier 10.1109/16.78380  
[AbstractPlus](#) | Full Text: [PDF](#)(1092 KB) IEEE JNL  
[Rights and Permissions](#)
- ☐ 3. **360×360 element three-phase very high frame rate burst image sensor: design and performance**  
Kosonocky, W.F.; Yang, G.; Kabra, R.K.; Ye, C.; Pektas, Z.; Lowrance, J.L.; M  
Shallcross, F.V.; Patel, V.;  
[Electron Devices, IEEE Transactions on](#)  
Volume 44, Issue 10, Oct. 1997 Page(s):1617 - 1624  
Digital Object Identifier 10.1109/16.628813  
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(332 KB) IEEE JNL  
[Rights and Permissions](#)
- ☐ 4. **Thermionic-emission-based barrier height analysis for precise estimation of handling capacity in CCD registers**  
Kawai, S.; Mutoh, N.; Teranishi, N.;  
[Electron Devices, IEEE Transactions on](#)  
Volume 44, Issue 10, Oct. 1997 Page(s):1588 - 1592  
Digital Object Identifier 10.1109/16.628808  
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(136 KB) IEEE JNL  
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5. **A 2/3" 1188(H) × 484(V) frame-transfer CCD for ESP and movie mode**